

#5

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (modified) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. 5437.06	APPLN. NO. 09/862,652
	APPLICANT: Doherty et al.	
	FILING DATE May 21, 2001	GROUP 2632 3752

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SDB	US-4,577,781	03/25/1986	Braun			
	US-4,690,553	09/01/1987	Fukamizu et al.			
	US-4,700,223	10/13/1987	Shoutaro et al.			
	US-4,733,760	03/29/1988	Inagaki et al.			
	US-5,652,522	07/29/1997	Kates et al.			
	US-5,796,344	08/18/1998	Mann et al.			
	US-					
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EXAMINER INITIAL	PUBLICATION NUMBER	PUB. DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	APPLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SDB	2,618,543	07-1987	France			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

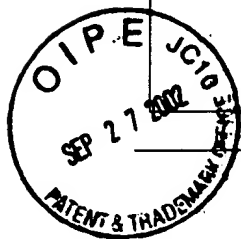
EXAMINER		DATE CONSIDERED	11/14/03
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

APPLN. NO.
09/862,652

APPLICANT:
John A. Doherty et al.

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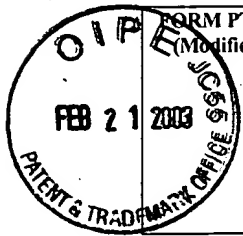
TRANSLATION

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

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APPLN. NO.

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APPLICANT:

Doherty et al.

FILING DATE

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SSG	US-6,354,786	03/12/2002	Feller			
	US-					
	US-					
	US-					
	US-					
	US-					
	US-					
	US-					
	US-					

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	APPLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

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EXAMINER		DATE CONSIDERED	11/14/03
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SUBCLASS	YES	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SCB	Article, "Just Drive!", by Allen Zeyher, Roads & Bridges, April 2002	
EXAMINER		DATE CONSIDERED 11/14/03

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(Modified) PATENT AND TRADEMARK OFFICE

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SERIAL NO.
09/862,652

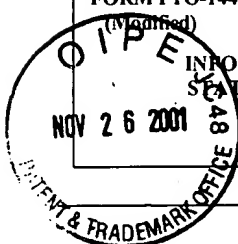
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT:
John A. Doherty

FILING DATE May 21, 2001

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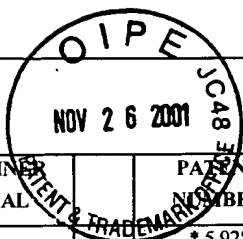
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SOA	3,160,964	12/1964	Boyer, et al. ✓	239	684	
SOA	3,519,169	07/1970	Holland ✓	222	626	
	* 3,540,655	11/1970	Hinrichs	239	75	
	* 3,655,130	04/1972	Patriek	239	77	
	* 3,856,206	12/1974	Bell, et al.	239	75	
	3,891,979	06/1975	Braun, et al. ✗	340	581	
SOA	3,995,569	12/1976	Picardat ✓	239	656x	
SOA	4,052,003	10/1977	Steffen ✗	239	71	
	* 4,084,748	04/1978	Anderson, et al.	239	74	
	* 4,176,791	12/1979	Cattaneo, et al.	239	76	
	* 4,209,065	06/1980	Ledent	166	64	
	* 4,210,284	07/1980	Tarnay, et al.	239	75	
SOA	4,274,091	06/1981	Decker ✓	340	905	
SOA	4,442,979	04/1984	Kupper ✓	239	656	
SOA	4,491,275	01/1985	Holsworth ✓	239	687x	
SOA	4,492,952	01/1985	Miller ✓	340	52 F	
	* 4,503,806	03/1985	Prusak, et al.	118	712	
	* 4,523,280	06/1985	Bachman	364	424	
	* 4,529,336	07/1985	Shinozaki et al.	406	14	
SOA	4,588,127	05/1986	Ehrat ✓	239	662x	
SOA	4,678,056	07/1987	Kobari, et al. ✓	180	247	
	* 4,768,716	09/1988	Buchanan, Jr., et al.	239	284.1	
	* 4,684,062	08/1987	Bagwell	239	1	
	* 4,803,626	02/1989	Bachman et al.	364	424.07	
	* 4,809,197	02/1989	Tashiro et al.	364	550	
	* 4,984,163	01/1991	Kuwana et al.	364	426.02	
	* 5,012,977	05/1991	Karklins, et al.	239	284.1	
	* 5,028,017	07/1991	Simmons, et al.	244	134C	
SOA	5,069,392	12/1991	Wise, et al. ✓	239	675	
SOA	5,096,125	03/1992	Wise, et al. ✓	239	675	
SOA	5,186,396	02/1993	Wise, et al. ✓	239	675	
SOA	5,267,696	12/1993	Balmer ✓	239	662	
SOA	5,310,113	05/1994	Cowgur ✓	239	69x	
SOA	5,318,226	06/1994	Kime, et al. ✓	239	687x	
	* 5,366,039	11/1994	Sawada	180	197	
SOA	5,416,476	05/1995	Rendon ✓	340	905	
SOA	5,447,272	09/1995	Ask ✓	239	7	
	* 5,449,049	09/1995	Every	180	197	
SOA	5,515,623	05/1996	Weeks ✓	239	289x	
SOA	5,521,594	05/1996	Fukushima ✓	340	905	
SOA	5,619,193	04/1997	Doherty, et al. ✓	340	905	
SOA	5,653,389	08/1997	Henderson, et al. ✓	239	172x	
SOA	5,699,056	12/1997	Yoshida ✗	340	905	
SOA	5,745,051	04/1998	Doherty, et al. ✓	340	905	
	5,774,070	06/1998	Rendon ✓	340	905	
SOA	5,904,296	05/1999	Doherty, et al. ✓	239	663x	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	* 5,928,504	07/1999	Hembre, et al.	218	88	
SCG	5,931,393	08/1999	Alsip, et al. ✓	239	677x	
	* 5,947,391	09/1999	Beck et al.	239	677	
	* 5,957,621	09/1999	Clark, Jr. et al.	404	111	
	* 6,092,745	07/2000	Seymour et al.	239	675	
	* 6,173,904	01/2001	Doherty et al.	239	1	

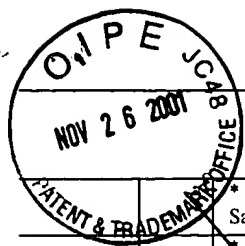
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	* 2,060,418	08/1993	Canada				
	* 2,233,689	04/1997	Canada				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SCG	Advertisement, Root Snow Plows ✓
	Mobile GPS Builds on 7400 Technology to Claim the Future of Pavement Management, FactsFinder ✓
	Advertisement, Henderson Manufacturing Reversible Plow ✓
	Advertisement, Henderson Manufacturing Patrol Wing ✓
	Advertisement, Tenco Side Wings ✓
	Advertisement, Tenco Reversible Plow ✓
	Surveyors Use Pedal Power to Map City, ENR, November 13, 1995 ✓
	Trimble, AEC Automation Newsletter, September 1995 ✓
	GPS Satellites, Trimble Precise Positioning Systems ✓
	GPS Goes Real Time, Civil Engineering, September 1994 ✓
	Advertisement, VIBRO-METER SA, Fribourg, Switzerland ✗
	SCAN FP 2000 Sensor Advertisement, Surface Systems Inc. ✗
SCG	Data Sheet D251, AANDERAA INSTRUMENTS, March 1995 ✓
SCG	UCRL-MI-120916, Lawrence Livermore National Laboratory, June 7, 1995 ✓
	Article, "Calibration to Automation," Road & Bridges, June 1999 ✗
SCG	Block diagram from Iowa Department of Transportation presentation, August 11, 1999 ✓
	* Advertisement, COMPU-SPREAD™ "Introducing our On board Liquid Pre-Wetting System. C.I.S. - SERIES," Appears to be available as early as April 1997
	* GL 400 Spreader Control Presentation, Component Technology, Appears to be available as early as March 15, 2001
	* White Paper, "Ice! Alert," Appears to be available as early as 1998
	* "SaltMiser™ Operating Instructions," December 8, 1997
	* Marketing Document, DIDACTICS Incorporated, "Why SaltMiser?," pages 1, 3, and 5 of 6 available
	* Marketing Document, DIDACTICS Incorporated, "Saltmiser™ 2.0 A Real Time Salt Application Controller," October 25, 1997
	* Marketing Document, DIDACTICS Incorporated, "IR Applications for Ice and Snow Control," pages 335-362 available, Appears to be available as early as May 12, 1998
	* Brochure, Enator Telub AB, "Mobile Road Condition Monitoring," Appears to be available as early as 1998
	* Article, "Better bridge deicing on the way?" Better Roads, June 1995
	* Advertisement, Passport 5000, "Only Passport 5000 Gives You the Total Picture," 1995
	* Article, "Roads Report," edited by Larry Flynn, Roads & Bridges, March 1993
	* Article, "Americans can Learn a Lot from European, Japanese Snowfighters," by Leland D. Smithson, P.E., Roads & Bridges, pages 30-32 available, June 1995
	* Article, "Developments Improve Road Weather Information Systems," Better Roads, pages 21 and 24 available, October 1995



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- * Article, "RWIS helps with snow and ice control," Better Roads, September 1994
- * Brochure, Tell Temp 750, Geneva Scientific, October 1994
- * Brochure, "Artificial Intelligence/Expert Systems," Kaman Sciences Corporation, Copyright 1991
- * Article, "Traffic Sensor System," Better Roads, December 1995
- * Article, "The View From Space Satellites keep eye on earthly activity," USA Today
- * Article, "Riding the Data Highway," Newsweek, Page 97, March 21, 1994
- * Picture diagram, "One-Second Emissions Test," Denver Post, May 7, 1995
- * Article, "Colorado Hosts Pilot Workshop Pavement Preventive Maintenance: An Idea Whose Time Has Come," Focus, US Department of Transportation Federal Highway Administration, August 1995
- * Article, "Innovations in ITS," ITE Journal, December 1996
- * Brochure, "KEMS . . . A Geographic Information System Tailored for Emergency Management Applications," Kaman Sciences Corporation
- * Article, "Measuring Salt's Effectiveness in New York," Better Roads, January 1995
- * Excerpts from America Online: K Klean, June 30, 1995
- * Article, "Clementine Searches for Ice on Moon," by Jane E. Allen, Sunday Camera, April 17, 1994
- * Article, entitled "Cellular technology has new niche, Phones offer mobile control in rural Colorado," by Dinah Zeiger, Denver Post, August 21, 1994
- * Article, "Columbia/HCA system speeds test result delivery," USA Today, November 11, 1994
- * Article, "Danger - Black Ice!" Traffic Technology International, 1994
- * Article, "New Horizons at Harris," by Bernie Ward, Sky, December 1994
- * Kaman Annual Report, 1993
- * Article, "Humidity and Pressure Measurement," Vaisala News, 1992
- * Kaman, A Technology Company, Fact Book, 1993
- * Article, "The Snow on Pluto," by Jeffrey Winters/Discover, January 1997
- * Article, "Water, Pure and Simple," by Ashok Gadgil, Discover, pages 87-88, July 1996
- * Article, "One Very Cold Lake," by Kathleen Spiessbach, Discover, page 26, January 1997
- * Article, "Perpetual Flight," by Kathy A. Sytil, Discover, page 38, November 1996
- * Advertisement, Cole-Parmer Instrument Company, re: Cole-Parmer Low-Cost Infrared Thermometers, 1997
- * Brochure, Southwest Research Institute - Guide, 13 pages, August 1996
- * Brochure, Southwest Research Institute - Guide, 13 pages, January 1998
- * Brochure, "Facts About Southwest Research Institute," Southwest Research Institute, San Antonio, Texas
- * Annual Report from Southwest Research Institute, 1996
- * Annual Report from Southwest Research Institute, 1997
- * Feedback on article, "Managing Winter Weather" and "Visibility a Key Component of Weather Systems," by John D. Crosby, December 1996
- * Article, "Ordinary Vinegar Found Among Stars," by Paul Recer
- * Brochure, "Solving Today's Problems for Tomorrow's Safety," Control Products, Inc.
- * Advertisement, "Are You Still Detecting Icy Roads Between Pavement Sensors by the Seat of Your Pants?" Vaisala
- * Brochure, "Better Roads. . . Safer Roads. . . More Cost Effective Roads. . . Through Innovations in Technology," Federal Highway Administration
- * Article, "Sensors to Help State Keep Ahead of Storms," by Ed Vogel
- * Brochure, "Autoscope," Econolite Control Products, Inc.
- * Brochure, "Playing with Fire - Science and Politics of Air Pollution from Cars"
- * Article, "Out Front - What's Happening in the World of ITS"
- * Article, "New Auto Technology Helps Guide Drivers, Avoid Crashes," by Earle Eldridge, USA Today
- * Advertisement, "Hand-Held Autoranging Conductivity Meters"
- * Instruction Manual from Coralba ad, Sweden, "Instructions for C-u Friction Tester"

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